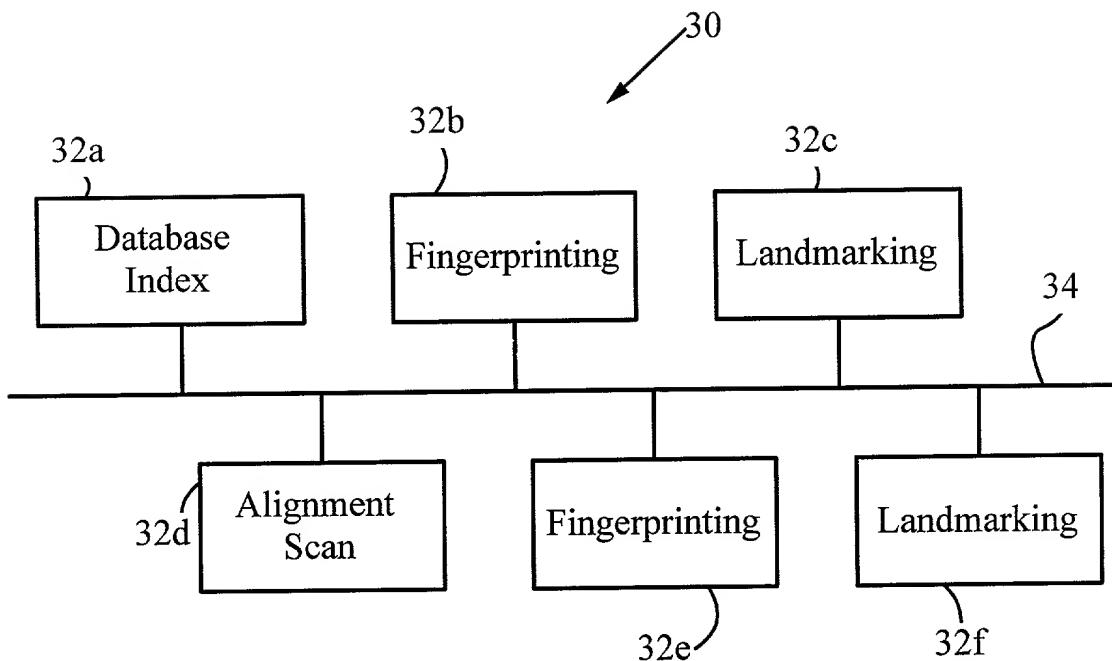
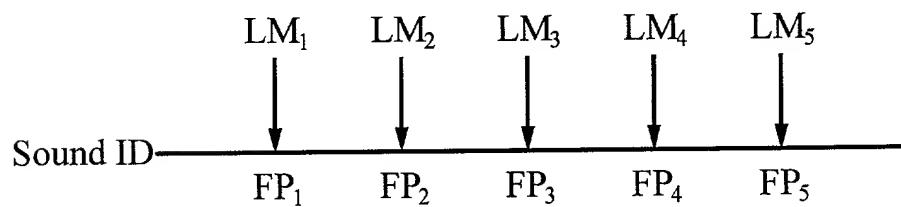


FIG. 1



**FIG. 2**



**FIG. 4**

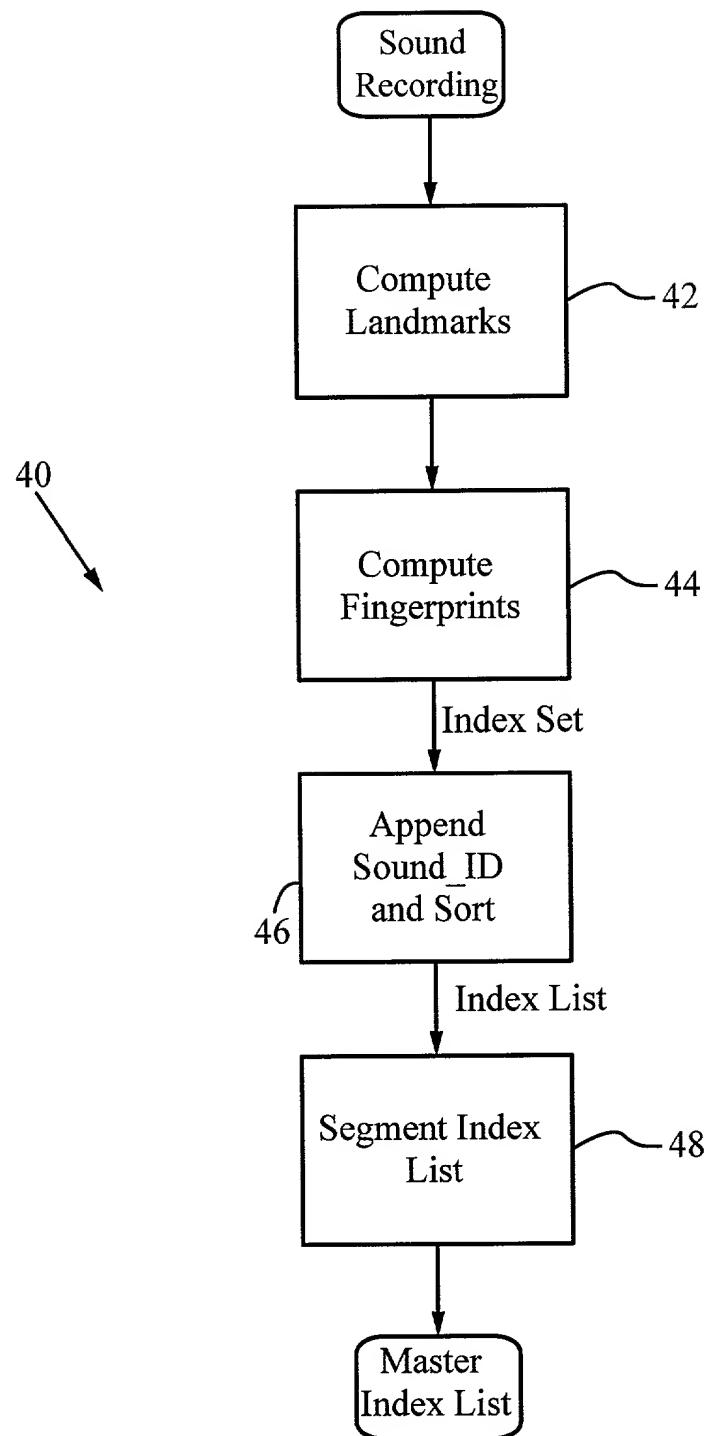
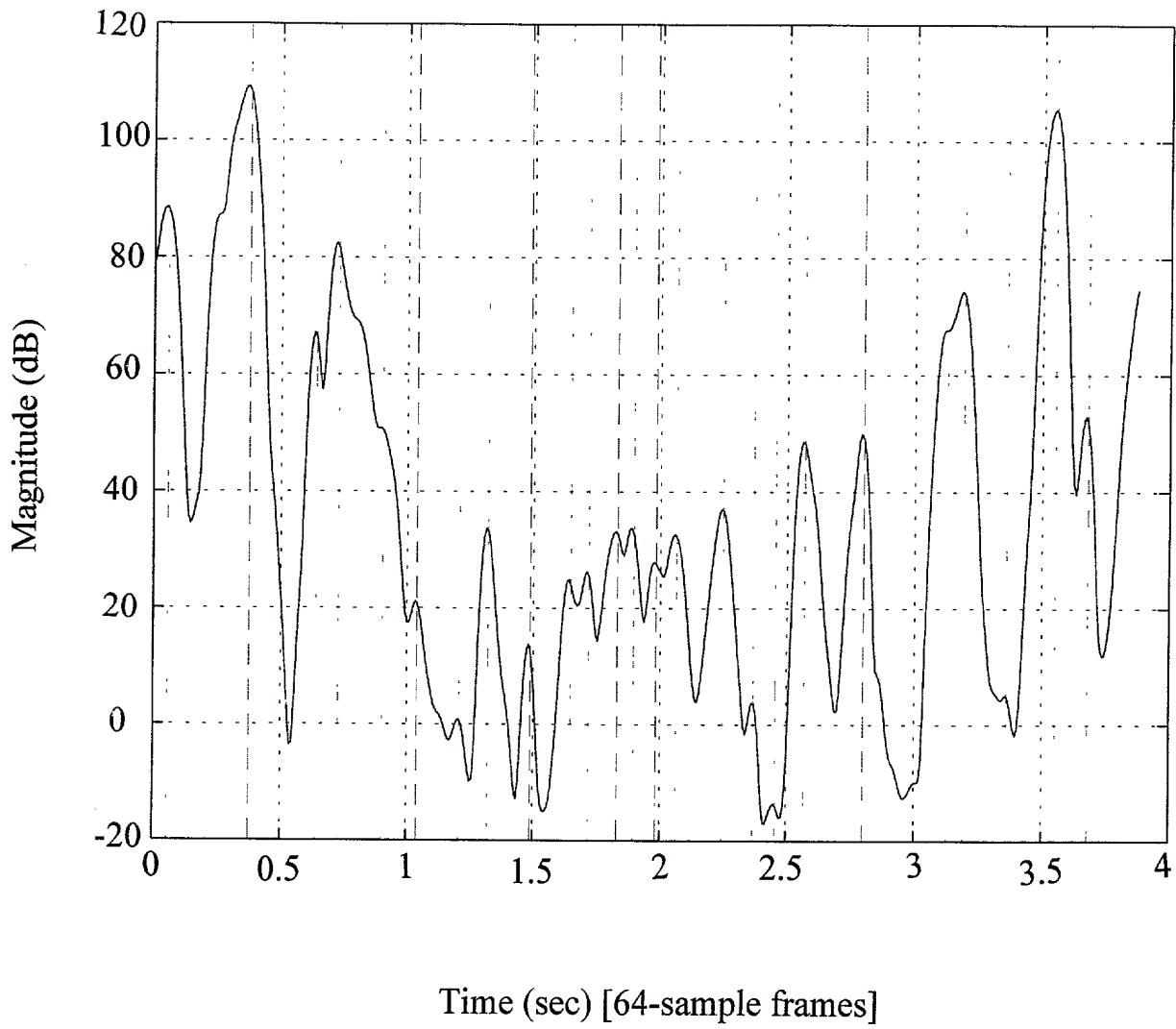


FIG. 3

## Landmarks in L4 Norm

**FIG. 5**

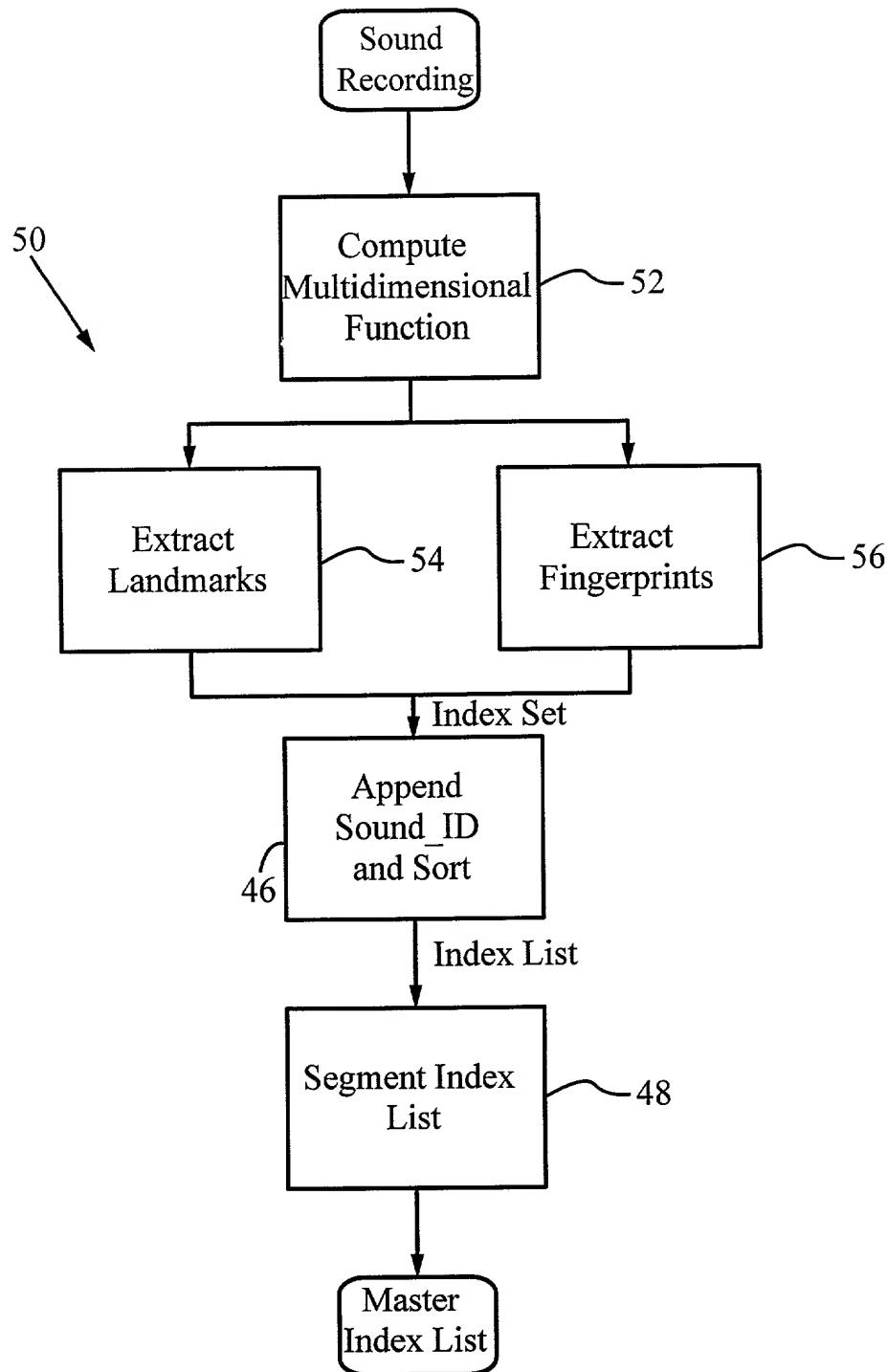
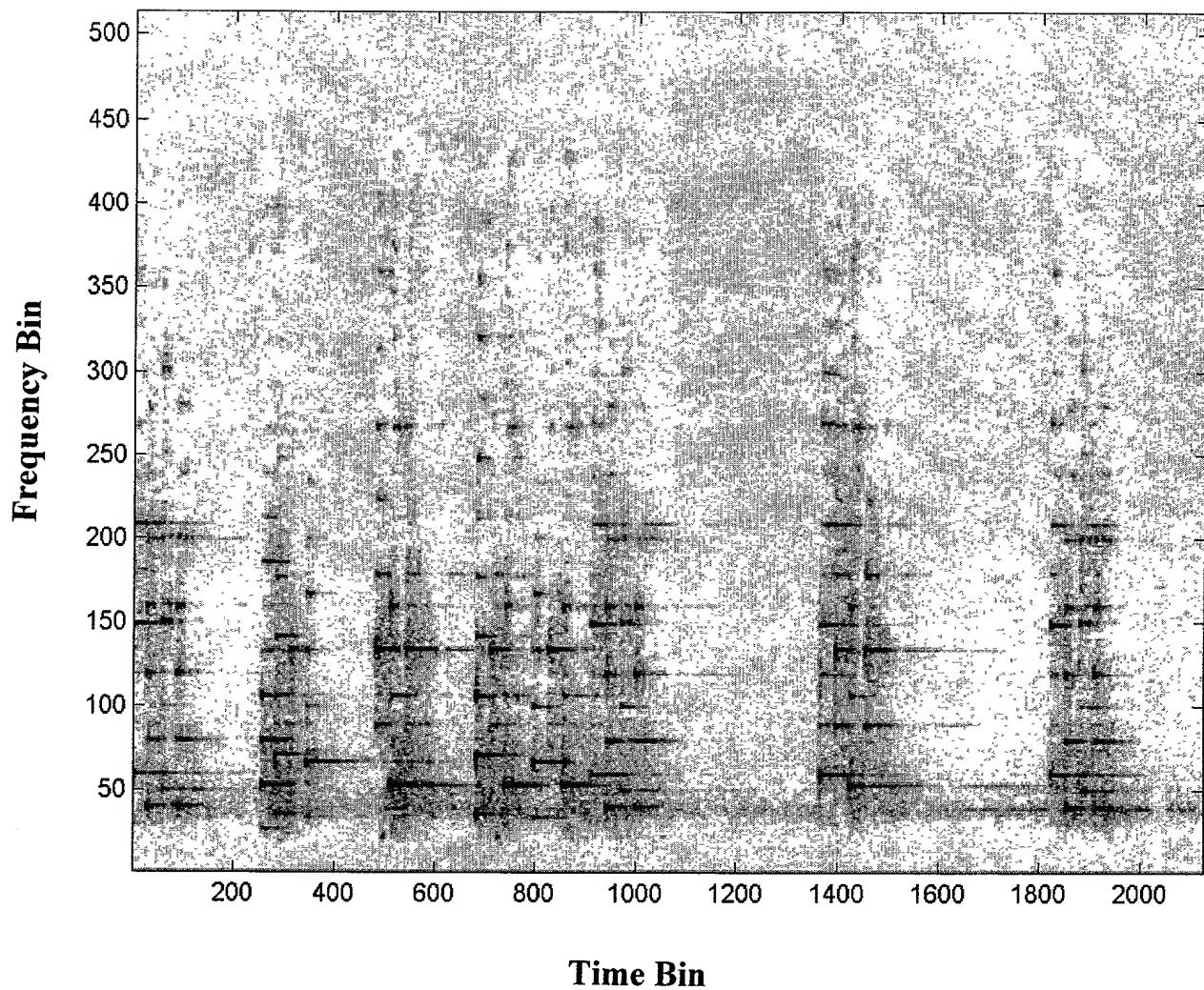
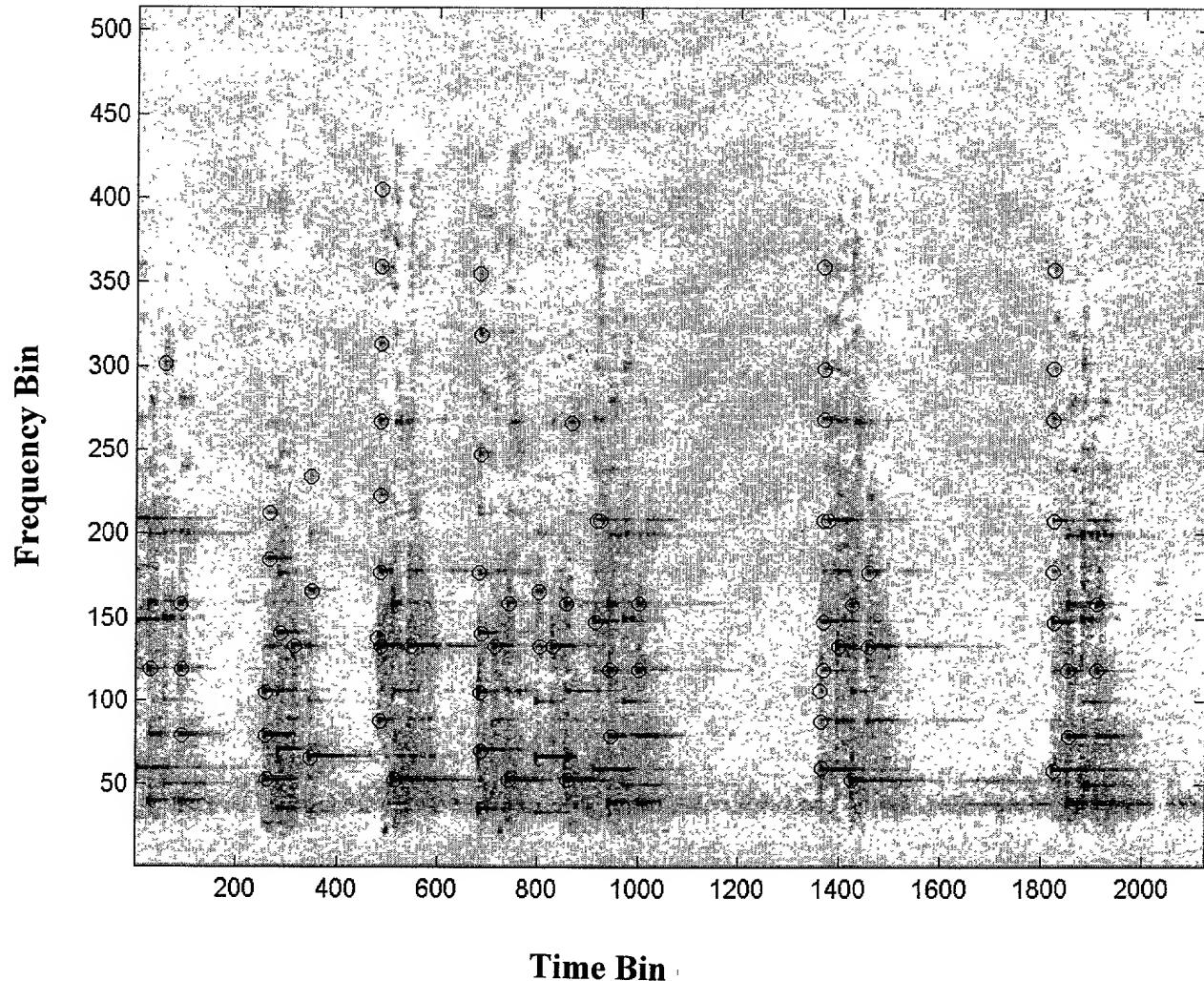


FIG. 6

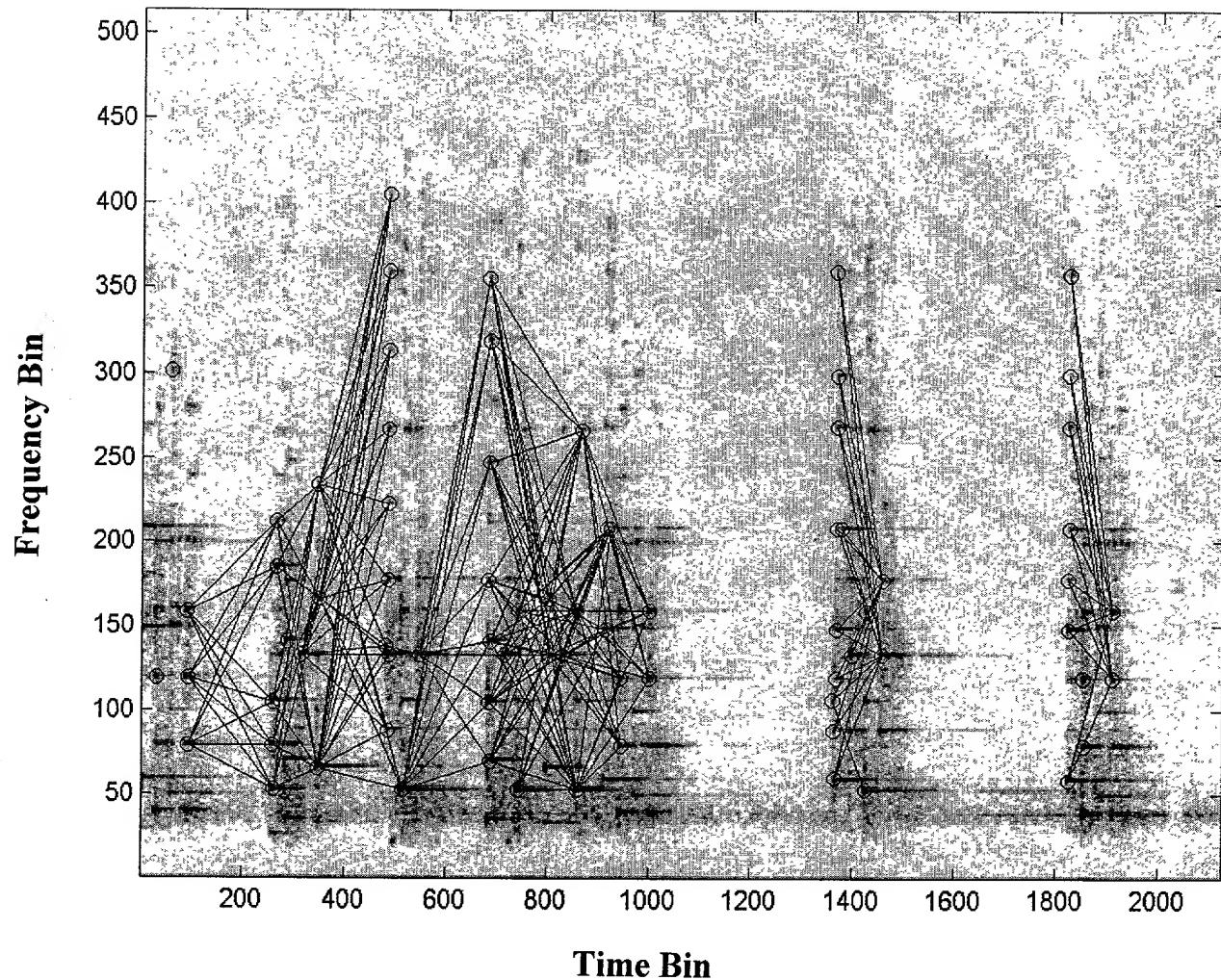


**FIG. 7A**

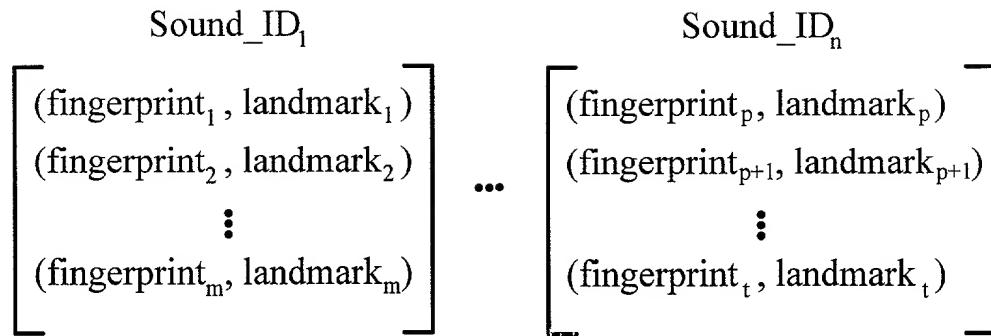
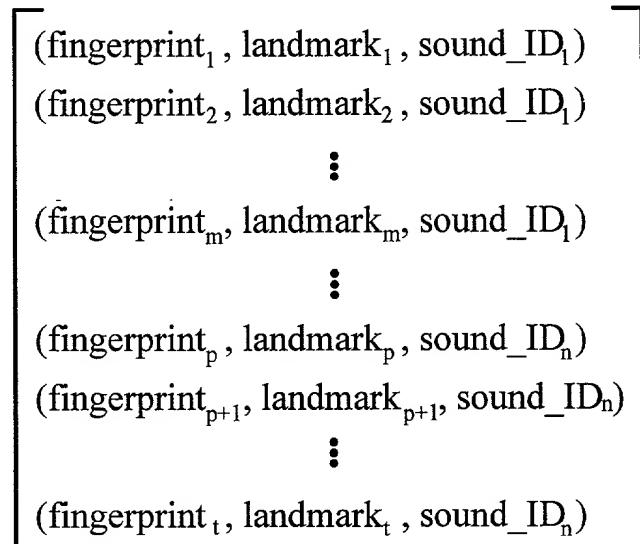
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**FIG. 7B**

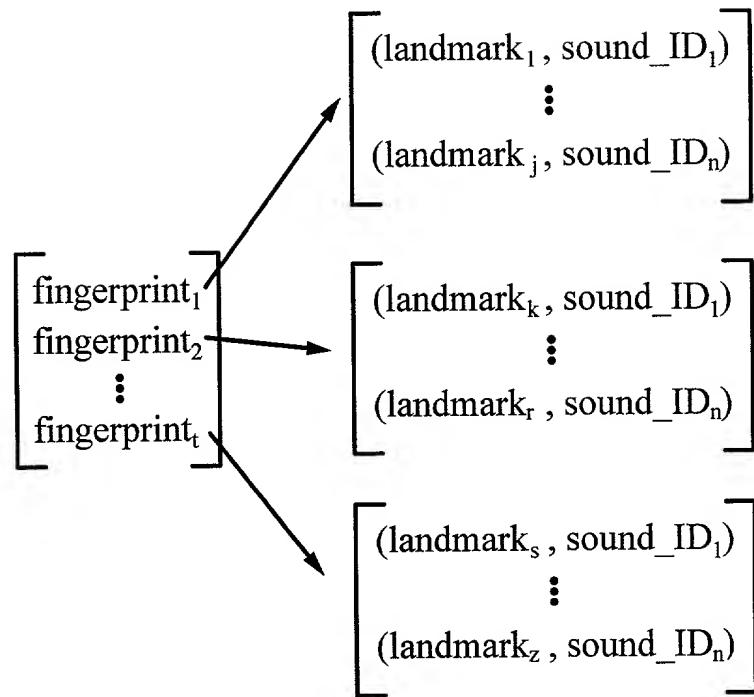


**FIG. 7C**

Index Sets**FIG. 8A**Index List**FIG. 8B**

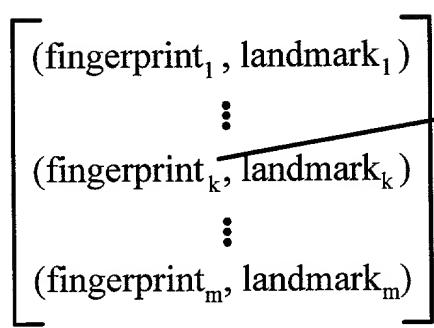
**10/13**

Master Index List

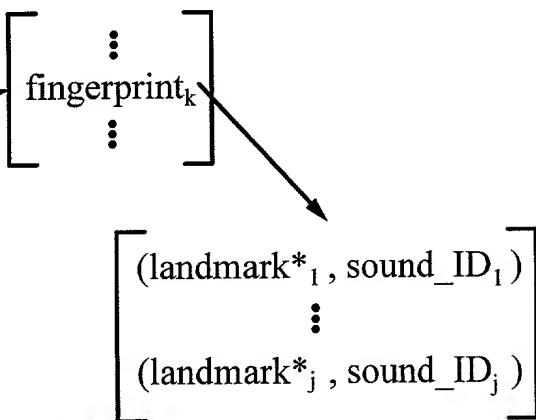


**FIG. 8C**

Sample Index Set



Master Index List

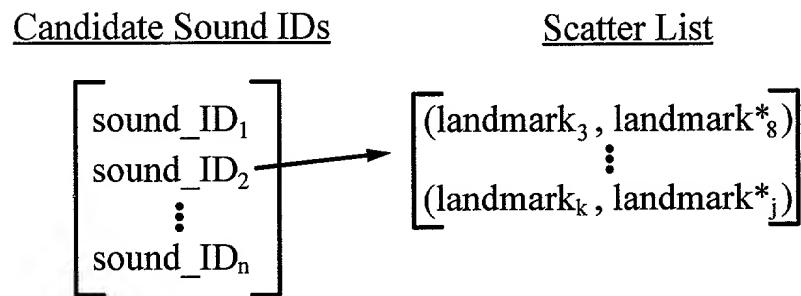


**FIG. 9A**

Candidate List

$$\begin{bmatrix} (\text{landmark}_1, \text{landmark}^*_1, \text{sound\_ID}_1) \\ \vdots \\ (\text{landmark}_k, \text{landmark}^*_j, \text{sound\_ID}_j) \\ \vdots \\ (\text{landmark}_m, \text{landmark}^*_r, \text{sound\_ID}_n) \end{bmatrix}$$

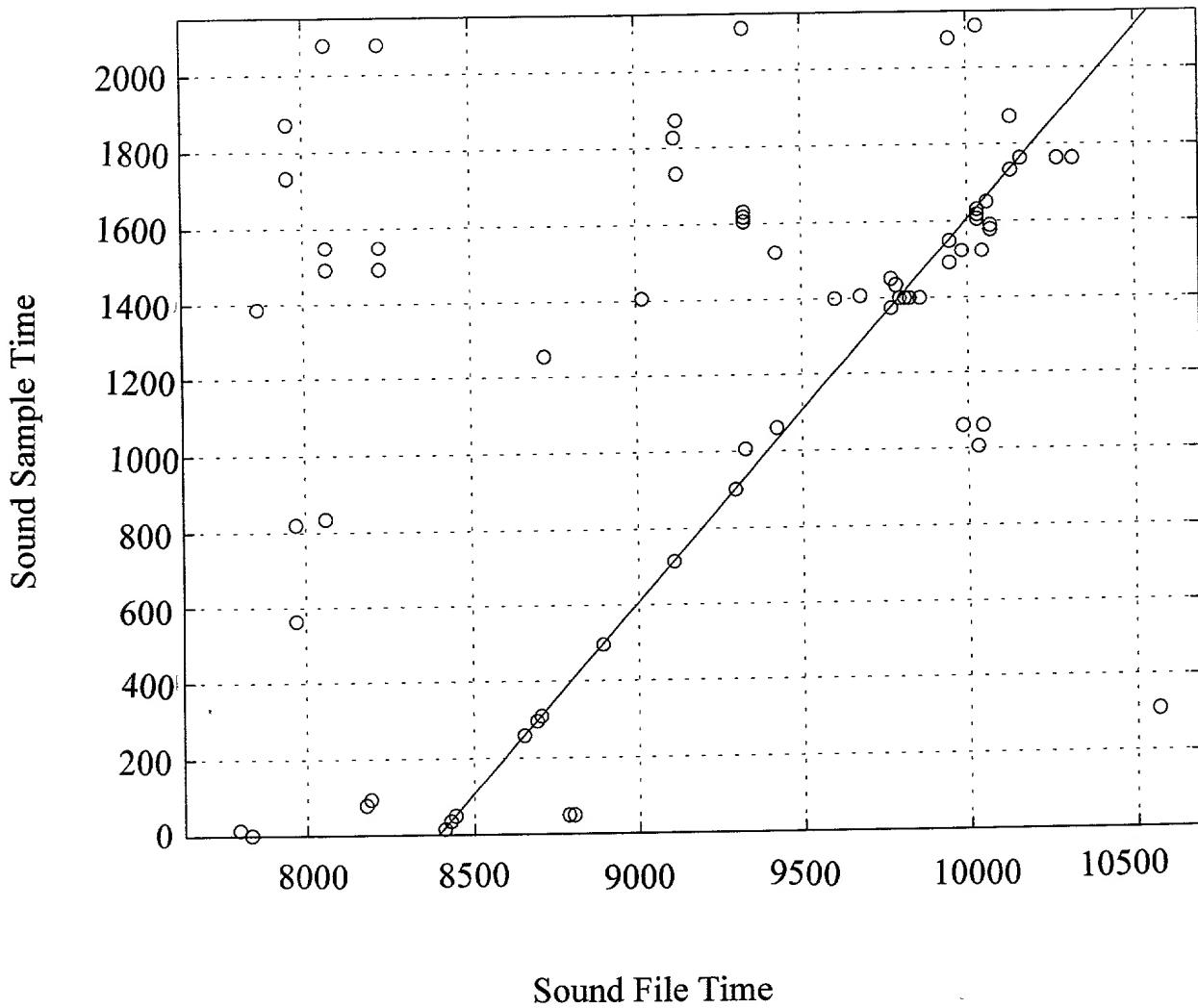
**FIG. 9B**



**FIG. 9C**

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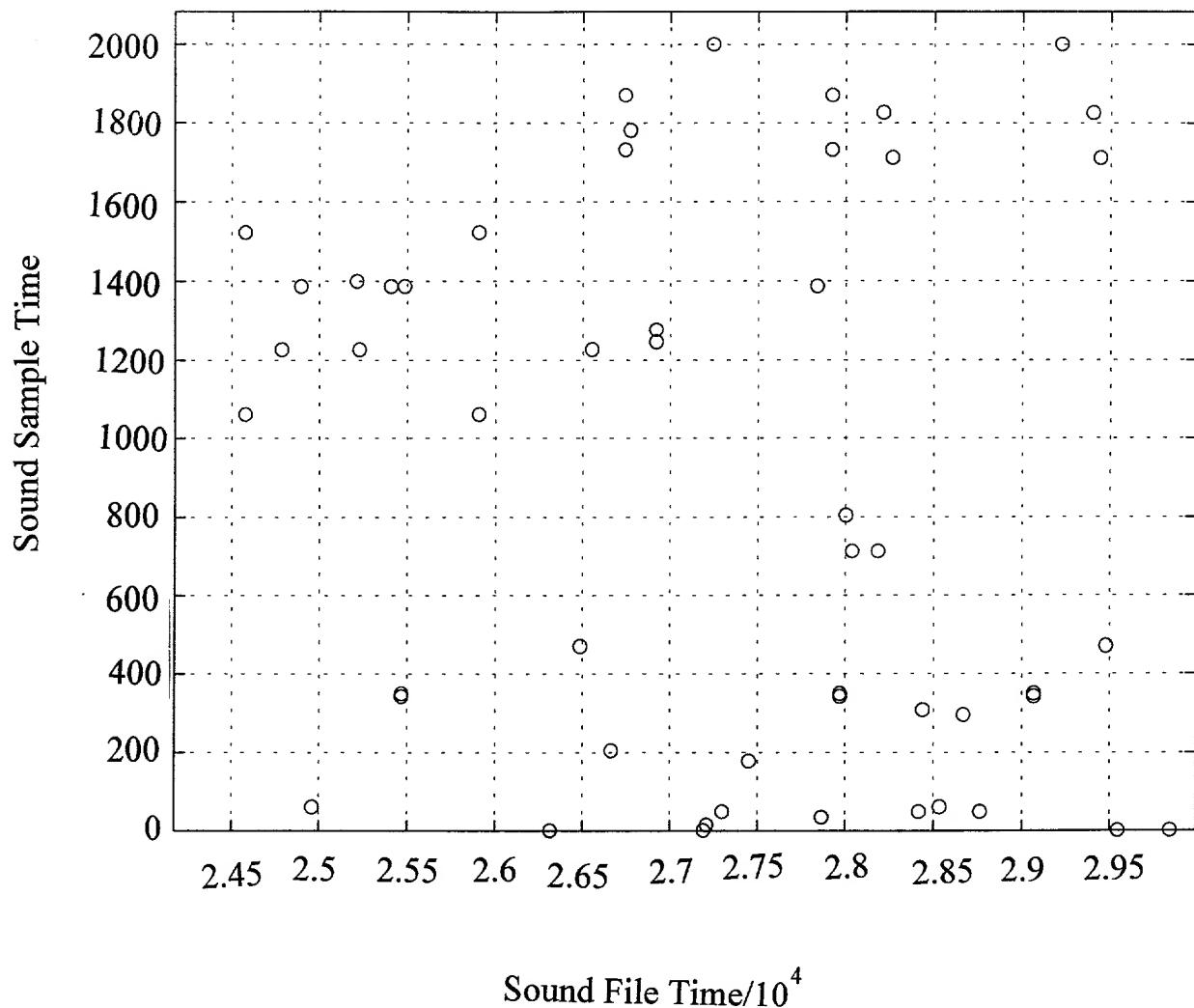
Winning file located: linear correspondence found



**FIG. 10A**

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Winning file not located: linear correspondence not found



**FIG. 10B**